

FIG. 1

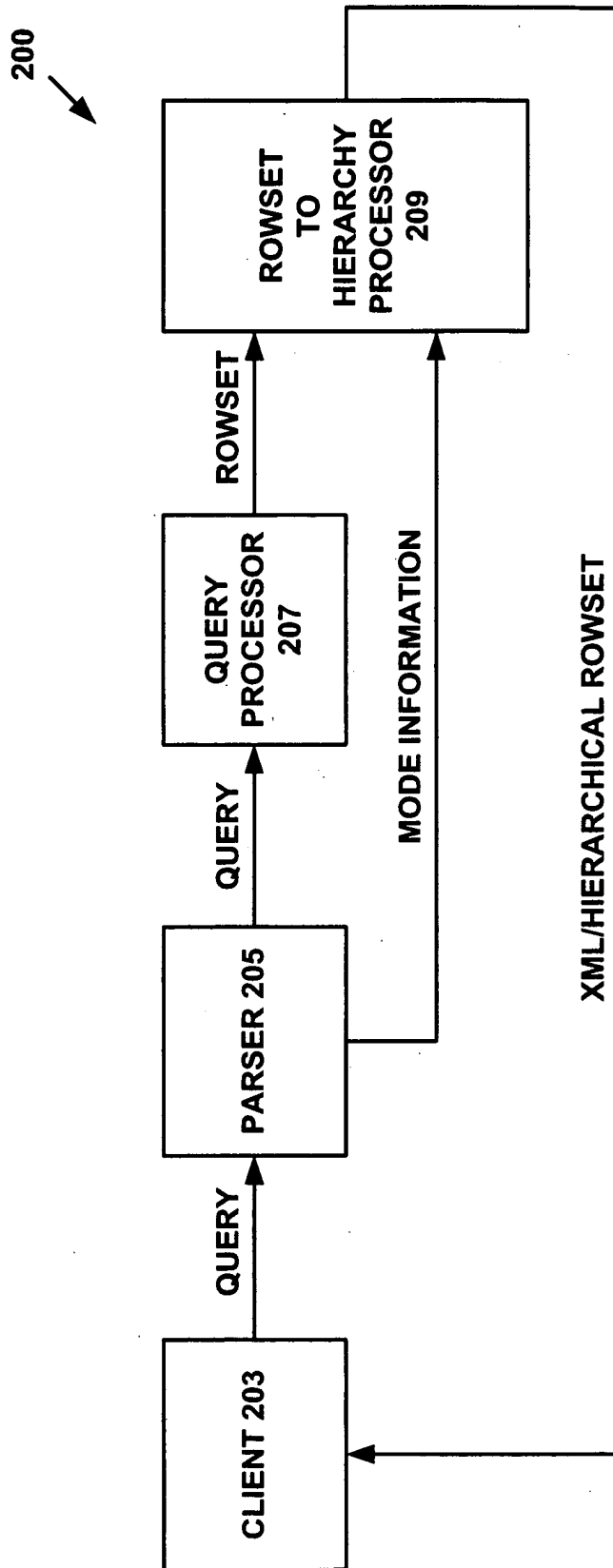


FIG. 2

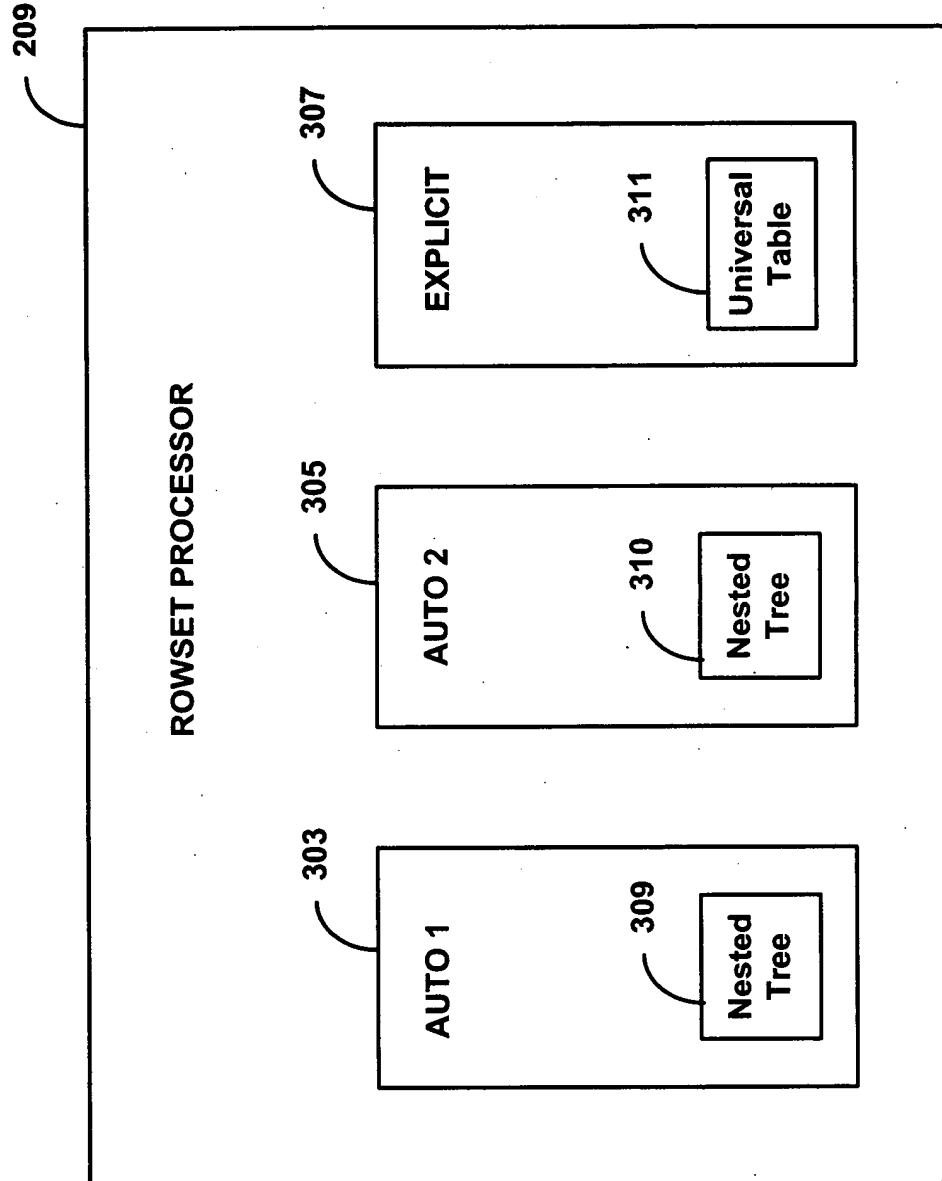


FIG. 3

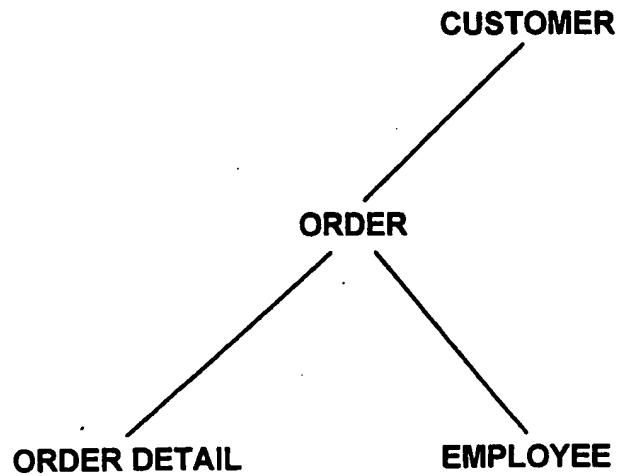


FIG. 4A

```
<Customer name="Smith">
  <Order oids="1397">
    <Orderdetail quantity="10" product="ABC" price="100"/>
    <Orderdetail quantity="5" product="DEF" price="50"/>
    <Orderdetail quantity="2" product="GHI"/>
    <Employee id="987"/>
  </Order>
</Customer>
```

FIG. 4B

311 →

507

TAG	PARENT	Customer!1!cid	Customer!1!name	Order!2!id	Order!2!date	OrderDetail!3!id!id	OrderDetail!3!id!idref
1	NULL	C1	"JANINE"	NULL	NULL	NULL	NULL
2	1	C1	NULL	01	1/20/1996	NULL	NULL
3	2	C1	NULL	01	NULL	OD1	P1
4	2	C1	NULL	01	NULL	OD2	P2
5	1	C1	NULL	02	3/29/1997	NULL	NULL

503 505

FIG. 5

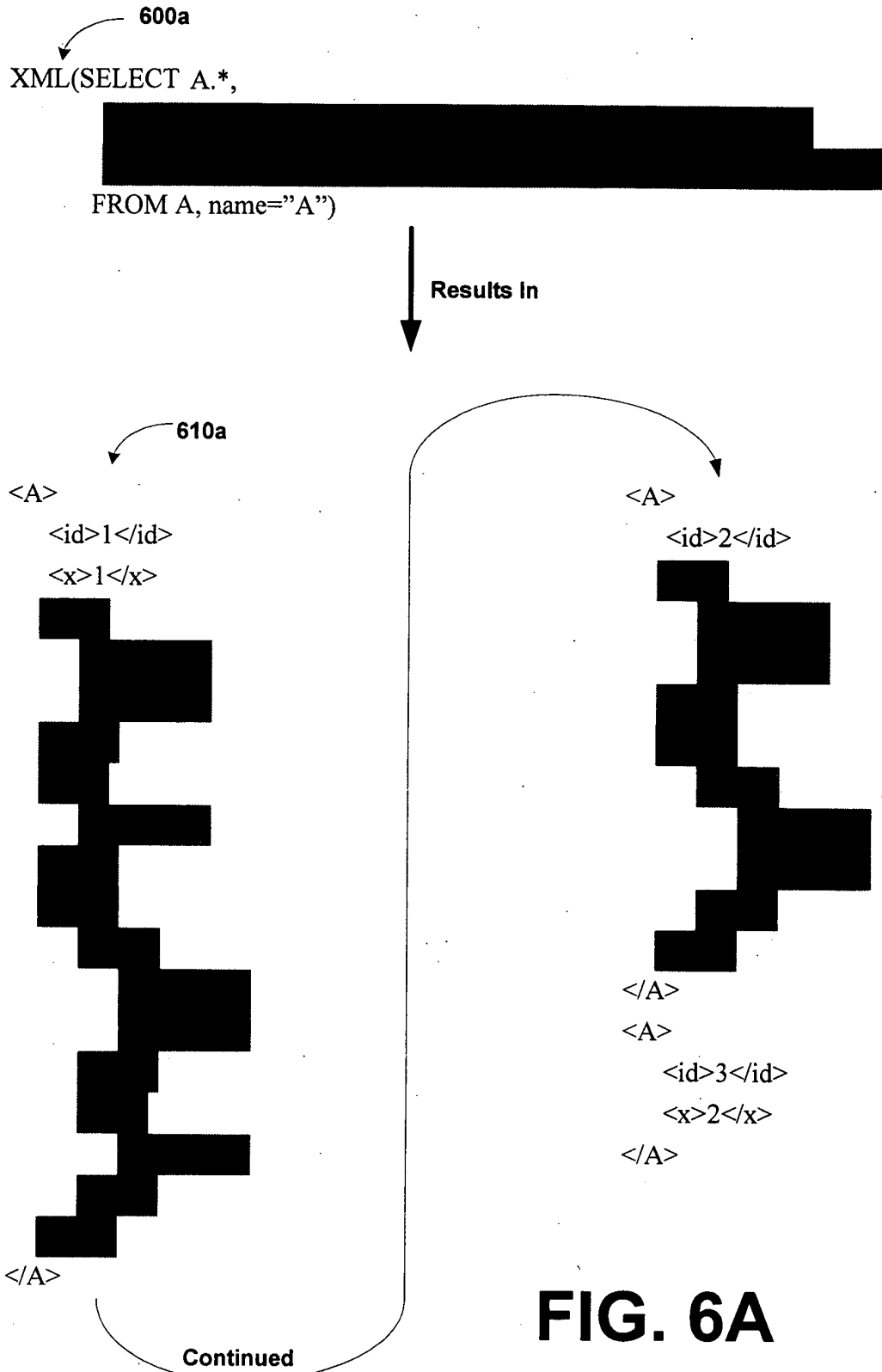


FIG. 6A

[REDACTED]

Results In

3

 $\langle x \rangle^2$

FIG. 6B

700a


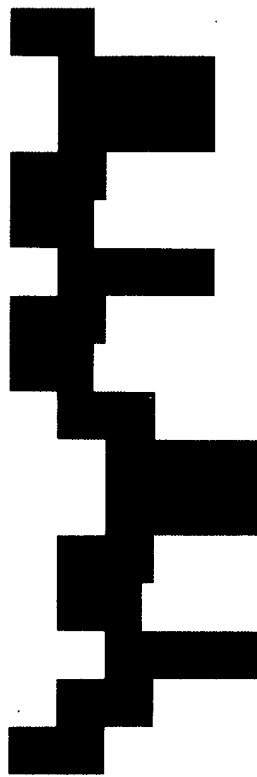
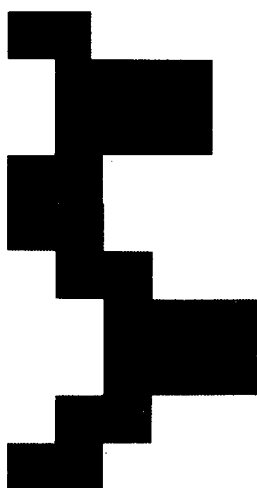

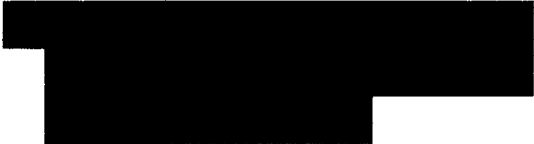


FIG. 7A

710a	
id	x
1	$\langle A \rangle$ $\langle x \rangle 1 \langle x \rangle$ 
2	$\langle A \rangle$ $\langle A \rangle$ 
3	$\langle A \rangle$ $\langle A \rangle$ $\langle x \rangle 2 \langle x \rangle$ 

A 720a	
id	x
1	1
2	NULL
3	2



B 720b	
a	y
1	2
1	5
1	1
2	1

SELECT A1.id,
XML(SELECT A.x,

FROM A WHERE A.id = A1.id, name="A") as x
FROM A A1

700b


Resulting
Rowset

FIG. 7B

710b	
id	x
1	<div><A> <x>1</x>  </div>
2	<div><A>  </div>
3	<div><A> <x>2</x> </div>

A <u>730a</u>	
id	x
1	1
2	NULL
3	2

B <u>730c</u>	
a	y
1	'a'
1	'b'
1	'c'
2	'd'

SELECT A1.id, 700c
XML(SELECT

A.x
FROM A WHERE A.id = A1.id, map=path, name="A") as x
FROM A A1

Resulting
Rowset



<u>710c</u>	
id	x
1	<A  <x>1</x>
2	<A  />
3	<A> <x>2</x>

FIG. 7C